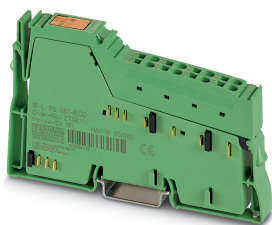


Inline function terminal - IB IL RS 485-ECO - 2702141

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Inline ECO communication terminal, for serial data transmission, 1 serial input and output channel in RS-485 format, with connector plug

Product Description


The terminal is designed for use within an Inline station.
The terminal is used to operate standard I/O devices with serial interfaces on a bus system.
Inline ECO terminals are approved for the temperature range from 0°C to +55°C. The electronics base and Inline connector are supplied as standard.

Your advantages

- One serial input and output channel in RS-485 format
- Data is transmitted in transparent mode
- Transmission speed can be set up to 38400 bps
- Number of data bits, stop bits and parity can be set
- Parameterization via process data



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 983235 |
| GTIN | 4046356983235 |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

| Caption | Dimensions |
|---------|------------|
| Width | 12.2 mm |
| Height | 119.8 mm |
| Depth | 71.5 mm |

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Technical data

Connection data

| | |
|---------------------------------------|------------------------|
| Designation | Inline connector |
| Connection method | Spring-cage connection |
| Conductor cross section solid min. | 0.08 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section flexible min. | 0.08 mm ² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Conductor cross section AWG min. | 28 |
| Conductor cross section AWG max. | 16 |
| Stripping length | 8 mm |

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | 0 °C ... 55 °C |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |
| Air pressure (operation) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Air pressure (storage/transport) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Degree of protection | IP20 |

General

| | |
|-------------------------------|----------------|
| Mounting type | DIN rail |
| Color | green |
| Net weight | 84.8 g |
| Note on weight specifications | with connector |

Interfaces

| | |
|----------------------|------------------------|
| Designation | Inline local bus |
| Connection method | Inline data jumper |
| Transmission speed | 500 kbps |
| Designation | RS-485 |
| Number of interfaces | 1 |
| Connection method | Spring-cage connection |
| Transmission physics | Copper |
| Protocols supported | Transparent |

Inline potentials

| | |
|---------------------|--|
| Designation | Communications power (U _L) |
| Supply voltage | 7.5 V DC (via voltage jumper) |
| Current consumption | typ. 70 mA |
| | max. 85 mA |
| Power consumption | typ. 525 mW (at U _L) |

Serial input/output channel

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Technical data

Serial input/output channel

| | |
|-------------------|------------------------|
| Parity | Even, odd or no parity |
| Transmission type | Transparent mode |

Electrical isolation

| | |
|--------------|--|
| Test section | Serial interface/7.5 V supply (bus logic) 500 V AC 50 Hz 1 min. |
| | Serial interface/24 V supply U_M 500 V AC 50 Hz 1 min. |
| | Serial interface/functional ground 500 V AC 50 Hz 1 min. |
| | 7.5 V supply (bus logic)/functional ground 500 V AC 50 Hz 1 min. |
| | 24 V supply (U_M)/functional ground 500 V AC 50 Hz 1 min. |

Standards and Regulations

| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

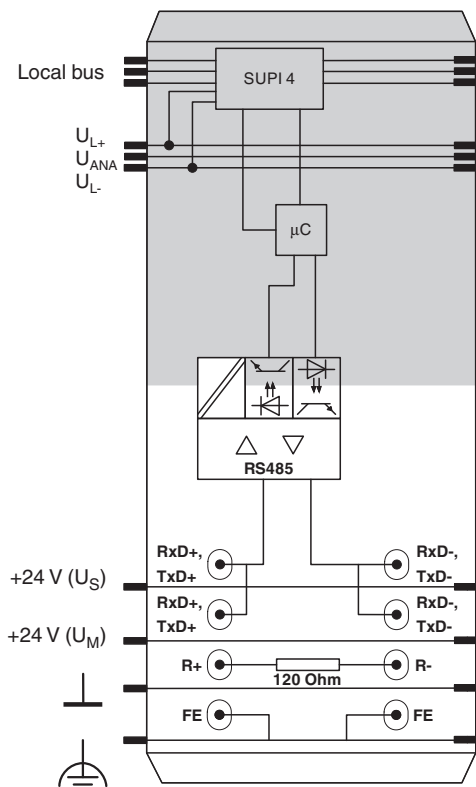
Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

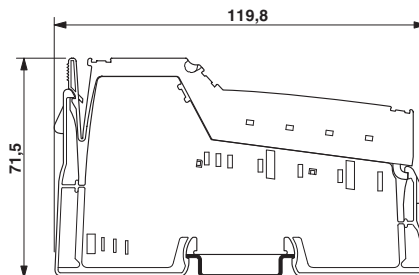
Drawings

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Block diagram



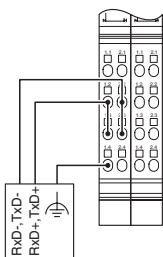
Dimensional drawing



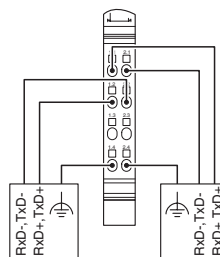
Dimensions

Internal wiring of the terminal points

Connection diagram



Connection diagram



Inline terminal as network end point

Inline terminal in the network center

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27242605 |
| eCl@ss 11.0 | 27242605 |
| eCl@ss 5.1 | 27242600 |
| eCl@ss 6.0 | 27242600 |
| eCl@ss 7.0 | 27242605 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 9.0 | 27242605 |
|------------|----------|

ETIM

| | |
|----------|----------|
| ETIM 6.0 | EC001601 |
| ETIM 7.0 | EC001601 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 32151602 |
| UNSPSC 18.0 | 32151602 |
| UNSPSC 19.0 | 32151602 |
| UNSPSC 20.0 | 32151602 |
| UNSPSC 21.0 | 32151602 |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|-----------|--|---|---------------|

| | | | |
|------------|--|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|------------|--|---|---------------|

| | | | |
|--------------|--|--|--|
| cULus Listed | | | |
|--------------|--|--|--|

Accessories

Accessories

Installation terminal block

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Accessories

Connection terminal block - AKG 4 GNYE - 0421029



Connection terminal block, nom. voltage: 300 V, nominal current: 41 A, connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.5 mm² - 6 mm², mounting: Neutral busbar, color: green-yellow

Connection terminal block - AKG 4 BK - 0421032



Connection terminal block, nom. voltage: 300 V, nominal current: 41 A, connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.5 mm² - 6 mm², mounting: Neutral busbar, color: black

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Neutral conductor rail

Neutral busbar - NLS-CU 3/10 SN 1000MM - 0402174



Neutral busbar, DIN VDE 0611-4: 1991-02, material: Copper, tin-plated, color: silver

Pick-off terminal block

Connection terminal block - AK 4 - 0404017



Connection terminal block, connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.5 mm² - 6 mm², mounting: Neutral busbar, color: silver

Plug

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Accessories

Inline connector - IB IL SCN-8 - 2726337

Connector, for digital 1, 2 or 8-channel Inline terminals



Inline shield connector - IB IL SCN-6 SHIELD - 2726353

Inline shield connector



Shield connection clamp

Shield connection clamp - SK 8 - 3025163



Shield connection clamp, for shield on busbars, contact resistance < 1 mΩ

Shield connection clamp - SK 14 - 3025176



Shield connection clamp, for shield on busbars, contact resistance < 1 mΩ

Shield connection clamp - SK 20 - 3025189



Shield connection clamp, for shield on busbars, contact resistance < 1 mΩ

Inline function terminal - IB IL RS 485-ECO - 2702141

Accessories

Shield connection clamp - SK 35 - 3026463



Shield connection clamp, for shield on busbars, contact resistance <math>< 1 \text{ m}\Omega</math>

Support

Support bracket - AB-SK - 3025341



Support bracket for busbars

Support bracket - AB-SK 65 - 3026489



Support bracket, Bracket for busbars, set every 20 cm, length: 95.5 mm, width: 6.2 mm, number of positions: 1, color: gray

Support bracket - AB-SK/E - 3026476



Support bracket, Bracket for busbars, set every 20 cm, length: 10 mm, width: 56 mm, height: 20 mm, number of positions: 2, color: silver

Terminal marking

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72

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